

# HF Happening!



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the week of 23 November 2015

## New UK/EI DX Contest to Launch in December

A new contest to promote activity between stations in the UK and in Ireland (UK/EI) and the rest of the world debuts with an SSB event on 5 and 6 December and a CW event on 23 and 24 January. Both get under way at 12:00 UTC on Saturday and end 24 hours later. The United Kingdom and Ireland Contest Club (UKEICC) is sponsoring the new contest.

"All UK and EI contesters, including those with modest stations and antennas, will experience the fun of being a multiplier in a worldwide contest," the announcement said. While the eventual goal is to have UK/EI stations work the rest of the world, all entrants may work all other entrants for points and multipliers.

For the first year or two we have to take into account that UK/EI participation may take time to build up and that there are long periods when DX stations cannot work UK/EI stations, because there is no propagation," the announcement pointed out. "Accordingly, we are initially allowing DX-to-DX contacts, which will make the contest more interesting for DX stations."

Full information is on the UK/EI DX Contest web page at

<http://www.ukeicc.com/which-contest/contest-rules/uk-ei-dx-contest>.

## World Radiocommunication Conference Approves Global 60 Metre Allocation!

The Plenary Meeting of the 2015 World Radiocommunication Conference (WRC-15) in Geneva has approved an allocation of 5 351.5 to 5 366.5 kHz to the Amateur Service on a secondary basis, with a power limit of 15 W effective isotropic radiated power (EIRP). The 18 November decision on Agenda Item 1.4 was adopted on two back-to-back readings. Some Region 2 countries will be permitted up to 25 W EIRP. With this action, and despite conditions that are more restrictive than had been hoped at the start of the Conference, the Amateur Service has obtained its first new global HF allocation since 1979.

While the Final Acts of the conference are expected to take effect on 1 January 2017, the new band will not become available to amateurs until their national telecommunications administration amends its rules and licensing conditions. Those administrations that already permit amateurs to operate in the 5 MHz range under certain conditions and on a not-to-interfere basis, including the FCC, will be considering whether, how, and when to modify those arrangements in light of the international allocation.

The International Amateur Radio Union (IARU) team is doing what it can to influence the agenda for WRC-19. The agenda could include addressing amateur spectrum requirements in the 50 - 54 MHz band in Region 1, which could lead to at least partial harmonization of the 6 metre band worldwide. A proposed agenda item to align the 160 metre allocation in Region 1 with the rest of the world is no longer under active consideration.



The WRC-19 agenda will also likely pose spectrum defence challenges, including possible consideration of the 420 - 450 MHz band to accommodate a new allocation to the space operations service for satellites in non-geostationary orbit that are described as "small satellites" or "satellites with short duration missions." One or more bands above 10 GHz may be up for consideration for 5G smartphone use. The bounds of these potential defensive items, however, are still under discussion by the conference and will not be settled until its final week.

The IARU team continues to monitor several other WRC-15 items that appear to be headed toward acceptable conclusions. WRC-15 continues through the signing of the Final Acts on 27 November.

## DXCC News

Sharon Taratula, The Awards Manager at the ARRL Radiosport Department reports that the following operations have been approved for DXCC credit.

5V7BJ, Togo; 2014 Operation  
 5V7MP, Togo; 2014 Operation  
 JD1BOX, Ogasawara; 2014 Operation  
 A52CVX, Bhutan; 2015 Operation  
 TY2AC, Benin; 2015 - 2018  
 TY4AB, Benin; 2015 Operation, and  
 V73D, Marshall Islands; 2015 Operation

## DXCC Entity name change

ARRL Membership and Volunteer Programs Manager/DXAC Staff Liaison, Dave Patton, NN1N, reports: This is an administrative change only. In the ARRL DXCC List, the name for the entity for ZL9 will be changed from Auckland and Campbell Islands to New Zealand Sub-Antarctic Islands. This does not include The Snares or any islands claimed by New Zealand south of 60 degrees south latitude.

Specifically, the Antipodes of New Zealand and the Bounty Islands of New Zealand will count for ZL9, New Zealand Sub-Antarctic Islands entity.

## November

- 1 – All Saints Day; Cape Town International Kite Festival
- 2 – Start of World Radio Communication Conference 2015 in Geneva, Switzerland
- 7 – **RaDAR Challenge**; Winterton Street Festival
- 8 – Remembrance Sunday; **PEARLS HF Contest**; the Big Walk, Cape Town
- 7 and 8 – International Police Association Contest
- 11 – Armistice Day; Diwali
- 19 to 21 – The GWK Cherry Festival in Ficksburg
- 21 – Overburg ARC Year-end Function
- 28 – West Rand Flea Market
- 28 and 29 – **CQ WW DX CW Contest and the SARL 5 MHz Activity Weekend**
- 29 – The 33<sup>rd</sup> Toy Run

## December

- 1 – **Start of Youth on the Air (YOTA) month**
- 3 – Day for Disabled Persons
- 6 – **SARL Digital Contest**
- 9 – All schools close
- 12 and 13 – **ARRL 10 metre contest**
- 16 – Day of Reconciliation
- 22 – Summer Solstice; Feast of Tevet
- 24 – Christmas Eve
- 25 – Christmas Day
- 26 – Family Day
- 31 – Old Years Eve; **end of 2015 CQ Marathon; end of Youth on the Air (YOTA) Month**
- 31 – Destroy your copy of the 2015 SARL Blue Book

This is not a new entity or a changed entity - it is a clarification of which islands count for the entity previously known as Auckland and Campbell Islands.

For the official announcement, see the ARRL Web page at [www.arrl.org/news/arrl-dxcc-department-announces-zl9-name-change](http://www.arrl.org/news/arrl-dxcc-department-announces-zl9-name-change)

Thank you Tjerk, ZS6P, for the two items of information

## MakingThings - Inspiring the Young

In order to encourage new and young interests in Radio and Electronics, a brand new and exciting event has been added to the UK calendar called MakingThings. This event is designed to encourage, inspire and

generate interest from our younger folk and will be run alongside SERF 2016.

We are looking to gain some sponsors in order that we can expand the practical workshops and demos, etc. Details will be available on [www.makingthings.eu](http://www.makingthings.eu). The MakingThings event will be on Sunday 5 June 2016. It will be indoors within the main hanger hall. The venue is the Eastbourne Sports Park, Cross Levels Way, Eastbourne, East Sussex BN21 2UF. Free car parking is available as well as camping and caravanning on site and there are disabled facilities. Doors open from 10:00 to 16:00 and admission is £3, children free.

Further information from Dave, G8PUO, on 0780 707 4538 or by e-mail to [info@makingthings.eu](mailto:info@makingthings.eu).

### WWQR Award

The WWQR Award series is an opportunity for every active amateur to join the World Radio Team Championship community. The award is issued on a yearly basis (2015, 2016 and 2017) for working stations from the 29 WRTC Qualification regions. Applications should be submitted through the DARC Community Logbook (DCL).

For detailed information, including a step-by-step guide, see [www.wrtc2018.de/index.php/en/activities/wwqr-award](http://www.wrtc2018.de/index.php/en/activities/wwqr-award).

### Antarctic and Sub-Antarctic Expedition Videos

Mehdi, F5PFP, has put together a great list of Antarctic and Sub-Antarctic expeditions videos available on the web. Check them out:

3YOPI: Cape Eva Camp - Peter I Island  
[www.youtube.com/watch?v=CyRy94cFK4M](http://www.youtube.com/watch?v=CyRy94cFK4M)

FB8AX: Port Martin - Antarctica (From 3 minutes 50 seconds to 26 minutes 50 seconds in French)  
[www.canalu.mobi/video/cerimes/antarctique.9055](http://www.canalu.mobi/video/cerimes/antarctique.9055)

FT5XO: Port Jeanne d'Arc - big island of Kerguelen

[www.youtube.com/watch?v=fXJgL8ukIuA](http://www.youtube.com/watch?v=fXJgL8ukIuA)

FT5YJ: Port Charcot - Wandel Island, Antarctica

[www.youtube.com/watch?v=poMxAnKhzwM](http://www.youtube.com/watch?v=poMxAnKhzwM)

LU/FT5YJ: Almirante Brown - Antarctica

[www.youtube.com/watch?v=qPQYa25hC20](http://www.youtube.com/watch?v=qPQYa25hC20)

VK0IR: ANARE Station - Heard Island

<https://vimeo.com/121445124>

VP8DLM: Base O - Danco Island Antarctica

[www.youtube.com/watch?v=4ONE3psnJG4](http://www.youtube.com/watch?v=4ONE3psnJG4)

VP8GEO: Husvik Whaling Station - big island of South Georgia

<https://vimeo.com/121317595>

VP8ORK: Waterpipe Refuge - Signy Island, South Orkney <https://vimeo.com/121222178>

VP8SSI : Corbeta Uruguay Station and Teniente Esquivel Refuge - South Sandwich Islands

[www.youtube.com/watch?v=d5B2oo9-Sjw](http://www.youtube.com/watch?v=d5B2oo9-Sjw)

VP8THU: Corbeta Uruguay - South Sandwich Islands <https://vimeo.com/121317593>

ZL9CI: Campbell Island Station

<https://vimeo.com/121857792>

### CQ World Wide DX Contest

The weekend of 28 and 29 November sees this year's CQ World Wide DX CW Contest, which will draw more than 30 000 participants. Good luck to everyone!  
<http://www.cqww.com/index.htm> and  
<http://www.ng3k.com/Misc/cqc2015.html>

Tunisia, 3V. Ashraf, 3V4-002 / KF5EYY, will be active as 3V8SS from the "Radio Club Station of Tunisian Scouts" in Sousse, during the CQ WW DX CW Contest (28 and 29 November) as a Single-Op/All-Band/Low-Power entry. QSL via LoTW or to LX1NO. Read

about Ashraf on the following web page at [www.kf5eyy.info](http://www.kf5eyy.info)

Madeira Islands, CR3/CT9. The CR3L contest station in Santana on Madeira Island (AF-014) will be active during the CQ WW DX CW Contest (28 and 29 November) as a Multi-2 entry. Operators mentioned are Ulrich, DJ2YA, Franta, DJOZY, Falk, DK7YY, Ulf, DL5AXX, Emil, DL8JJ, Vesko, LZ2JE and Andy, PA4A. QSL CR3L via DJ6QT. Activity by operators outside of the contest will sign as CT9/home call. QSL via their home call sign. Visit the CR3L Santana, Madeira Island web page at <http://www.cq3l.de>

Madeira Island, CT3. Jose, CT1BOH, operates the contest as CR3OO from Madeira Island (AF-014). QSL via W3HNK.

Canary Islands, EA8. Jyrki, OH6CS, is going to operate the contest as EA8CUU on all bands. QSL via OH6CS (direct).

Canary Islands, EF8. Marijan, S56A, Manuel, EA8ZS, Luis, EA8AY, Marion, EA8DP, Carlos, EA8DDM, Antonio, EA8BQM and possibly other EA8URL Club members, will be active as EF8U from Gran Canaria Island (AF-004) during the CQ WW DX CW Contest (28 and 29 November) as a Multi-2 entry. QSL via LoTW. To see the station, see <http://ea8url.blogspot.com> and [www.grz.com/lookup/ef8u](http://www.grz.com/lookup/ef8u)

Canary Islands, EA8. Zoltan, HA5PP, will be active as EA8/HA5PP on either a single band or all bands. QSL via HA5PP.

Canary Islands, EA8. Juan, EA8RM, will also be active. QSL via LoTW.

Canary Islands, EA8. ED8X on Tenerife Island (AF-004) will be operated Multi/Single by RA1A, RW1A, K1LZ, K1XM, KQ1F, K3JO, LZ2HM, JT1CO, YO9WF, and YO9GZU. QSL via RN3RQ and LoTW.

South Africa, ZS. Bernie, ZS4TX, plans a single band contest operating on 10 m from zone 38. QSL via LoTW.

## African DX

Malawi, 7Q. Karl, DK2WV, is active as 7Q7VW from the Radio Dinosaur FM station in Karonga until 2 December. Activity is on 160 to 6 metres using CW, SSB and RTTY. QSL to home call.

Mozambique, C9. Marko, N5ZO, will be active as C92ZO from Praia de Bilene from 22 November to 1 December. Activity will be on the HF bands using CW and SSB. This includes being active in the upcoming CQ World Wide DX CW contest as a Single Op/All Band/High Power entry. QSL direct to OH0XX.

Guinea Bissau, J5. Livio, IZ3BUR, is once again active as J52HF from the Cumura Hospital in Guinea Bissau until 10 December. Libero, IK3RBE, and Milena, IK3VZJ, will also be there. Activity will be limited to his spare time, mainly on 20/15/10/6 meters using SSB and PSK31. QSL via I3LDP. The log will be uploaded to ClubLog's OQRS when he returns to Italy. For info about QSO/QSL, send an E-mail to [veronadxteam@gmail.com](mailto:veronadxteam@gmail.com). For more details about the J52HF team, visit [www.ari.verona.it/veronadxteam/en/index.htm](http://www.ari.verona.it/veronadxteam/en/index.htm)

Liberia, EL. Donald, EL2DW, is working from Monrovia until 17 December and can be found on 20, 15 and 10 metres using SSB. QSL via KD4UDU in Florida.

Senegal, 6W. Once again Francis, F6BLP ([www.f6blp.org](http://www.f6blp.org)) will be active as 6W7SK from Senegal from 5 to 31 January. He will operate CW and some SSB and RTTY on 160 to 10 metres, with a focus on the low bands during his sunrise hours. QSL via F6BLP, direct or bureau and LoTW; log search on Club Log.



## African Islands

IOTA frequencies

CW: 28 040 24 920 21 040 18 098 14 040 10 114 7 030 3 530 kHz

SSB: 28 560 28 460 24 950 21 260 18 128 14 260 7 055 3 760 kHz

Senegal, 6W. Members of the Association des Radioamateurs du Senegal (ARAS) are going to activate Goree Island (AF-045) with the call 6V1A from 27 to 29 November. They will be active on HF using SSB and CW. QSL via 6W7JX (direct).

Reunion Island, FR. Anne, OH2YL, will be active as FR/OH2YL from 22 November to 1 December. Activity will be on 160 to 10 meters using CW. QSL to home call.

Mauritius, 3B8. Jan, SM6GOR, and Johnny, SM6JBC, are now active as 3B8HB and 3B8JB, respectively, from Mauritius Island (AF-049) until 11 December. Activity will be on 40 to 10 metres using CW, RTTY, PSK and some SSB. QSL via their home call sign, direct or by the Bureau.

Mauritius and Rodrigues Islands, 3B8/3B9. Matthias, DF6LO, will be active as 3B9/DF6LO from Rodrigues Island (AF-017) between 24 and 29 November, followed by an operation from Mauritius Island (AF-049) as 3B8/DF6LO between 1 and 6 December. Activity will be holiday style (3 hours per day) mainly in the evening (after 16:00 UTC) on 30 to 10 metres, perhaps 40 metres. No skeds at all, sorry! He will use a FT-857D with 30 watts on JT65 and occasionally 100 watts on CW. QSL via LoTW and eQSL only.

Rodrigues, 3B9. Olof, GOCKV will be active again as 3B9HA from Rodrigues (AF-017) between 19 and 29 November. Main activity will be during the CQ WW DX CW Contest. QSL via LoTW.

## VP8STI and VP8SGI

"The licenses (VP8STI for South Sandwich, VP8SGI for South Georgia and VP8IDX for Falklands & /mm) have been issued and are in hand. The RV Braveheart is being prepared and loaded for her long voyage halfway around the world to meet the team in the Falkland Islands. We expect to land at South Sandwich and begin operations sometime on 17 January, if sea conditions and weather permit. After ten days at South Sandwich, we will break camp and voyage three days to South Georgia. We expect to land and be on the air on 1 February. This is a "Pure DX" DXpedition, whose sole focus is getting you in our logs! To date, we have raised \$153 500 from the global DX Community. The 14 team members have contributed \$210 000 towards our entire budget of \$425 000. If your club or you yourself have not already donated will you please consider a donation? We cannot get there without you!" See [www.intrepid-dx.com/vp8](http://www.intrepid-dx.com/vp8).

## Contest Calendar

This week's contests compiled by Bruce Horn, WA7BNM. The period covered is 23 to 30 November 2015

### SKCC Sprint

00:00 - 02:00 UTC 25 November

Mode: CW

Bands: 160, 80, 40, 20, 15, 10 m

Classes: (none)

Exchange: RST, state, province or country, name and SKCC no or power

Work stations: Once per band

QSO Points: 1 point per QSO; Bonus Points: 5 points per Centurion member QSO per band; 10 points per Tribune member QSO per band; 25 points per QSO with SKCC club call (K9SKC) per band

Multipliers: Each state, province or country once

Score Calculation: Total score = (total QSO points x total mults) and bonus points

Submit logs by: 23:59 UTC 27 November 2015

E-mail log summary to: (none)

Post log summary at:

[http://www.skccgroup.com/operating\\_activities/weekday\\_sprint/submit-display.php](http://www.skccgroup.com/operating_activities/weekday_sprint/submit-display.php)

Mail logs to: (none)

Find rules at:

[http://www.skccgroup.com/operating\\_activities/weekday\\_sprint/](http://www.skccgroup.com/operating_activities/weekday_sprint/)

Phone Fray

02:30 - 03:00 UTC 25 November

Mode: SSB

Bands: 160, 80, 40, 20, 15 m

Classes: Single Op

Max power: 100 watts

Exchange: NA: Name and state, province or country; non-NA: Name

Work stations: Once per band

QSO Points: NA station: 1 point per QSO; non-NA station: 1 point per QSO with an NA station

Multipliers: Each US state (including KH6/KL7) once per band; Each VE province/territory once per band; Each North American country (except W/VE) once per band

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 03:00 UTC 27 November 2015

E-mail logs to: (none)

Post log summary at:

<http://www.3830scores.com>

Mail logs to: (none)

Find rules at:

[http://www.perluma.com/Phone\\_Fray\\_Contest\\_Rules.pdf](http://www.perluma.com/Phone_Fray_Contest_Rules.pdf)

CWops Mini-CWT Test

13:00 - 14:00 UTC and 19:00 - 20:00 UTC 25 November and 03:00 - 04:00 UTC 26 November

Mode: CW

Bands: 160, 80, 40, 20, 15, 10 m

Classes: Single Op - QRP, low or high

Max power: HP: >100 watts; LP: 100 watts;

QRP: 5 watts

Exchange: Member: Name and member no; non-Member: Name and state, province or country

Work stations: Once per band

QSO Points: 1 point per QSO

Multipliers: Each call once

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 04:00 UTC 28 November 2015

Post log summary at:

<http://www.3830scores.com>

Mail logs to: (none)

Find rules at:

<http://www.cwops.org/cwt.html>

UKEICC 80 m Contest

20:00 - 21:00 UTC 25 November

Mode: CW

Bands: 80 m Only

Classes: Single Op Connected - high, low or QRP; Single Op Unconnected - high, low or QRP

Max power: HP: 1 500 watts; LP: 100 watts;

QRP: 5 watts

Exchange: 4-Character grid square

QSO Points: 1 point per 500 km; multiply QSO points by 2 if low power station; multiply QSO points by 4 if QRP station

Multipliers: (none)

Score Calculation: Total score = total QSO points

Submit logs by: 22:00 UTC 25 November 2015

E-mail logs to: (none)

Upload log at:

<http://logs.ukaiccc.com/cgi-bin/hfenter.pl>

Mail logs to: (none)

Find rules at: <http://www.ukaiccc.com/which-contest/contest-rules/ukaiccc-80m-contests-rules>

RSGB 80 m Club Sprint, CW

20:00 - 21:00 UTC 26 November

Mode: CW

Bands: 80 m Only

Classes: 100 W; 10 W

Exchange: other station's call, your call, serial no and your name

QSO Points: 1 point per QSO

Multipliers: (none)

Score Calculation: Total score = total QSO points

Submit logs by: 3 December 2015

Upload log at: <http://www.rsgbcc.org/cgi-bin/hfenter.pl>

Mail logs to: (none)

Find rules at:

<http://www.rsgbcc.org/hf/rules/2015/rsprint.shtml>

NCCC RTTY Sprint

01:45 - 02:15 UTC 27 November

Mode: RTTY

Bands: (see rules)

Classes: (none)

Exchange: Serial no, name and QTH

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 29 November 2015

E-mail logs to: (none)

Post log summary at:

<http://www.3830scores.com/>

Mail logs to: (none)

Find rules at:

<http://www.ncccsprint.com/rtty.html>

NCCC Sprint

02:30 - 03:00 UTC 27 November

Mode: (see rules)

Bands: (see rules)

Classes: (none)

Exchange: Serial no, name and QTH

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 29 November 2015

E-mail logs to: (none)

Post log summary at:

<http://www.3830scores.com/>

Mail logs to: (none)

Find rules at:

<http://www.ncccsprint.com/rules.html>

CQ Worldwide DX CW Contest

00:00 UTC 28 November to 24:00 UTC 29 November

Mode: CW

Bands: 160, 80, 40, 20, 15, 10 m

Classes: Single Op All Band - QRP, low or high (Option: Classic/Rookie); Single Op Single Band - QRP, low or high; Single Op Assisted All Band - QRP, low or high; Single Op Assisted Single Band - QRP, low or high;

Multi-Single (Low/High); Multi-Two; Multi-Multi

Max power: HP: 1 500 watts; LP: 100 watts;

QRP: 5 watts

Exchange: RST and CQ Zone no

Work stations: Once per band

QSO Points: 0 points per QSO with same country (counts as mult); 1 point per QSO with different country same continent; 2 points per QSO with different country same continent (NA); 3 points per QSO with different continent

Multipliers: Each CQ zone once per band; Each country once per band

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 23:59 UTC 4 December 2015

E-mail logs to: [cw@cqww.com](mailto:cw@cqww.com)

Upload log at:

<http://www.cqww.com/logcheck/>

Web-to-Cabrillo form:

[http://www.b4h.net/cabforms/cqwwcw\\_cab.php](http://www.b4h.net/cabforms/cqwwcw_cab.php)

Mail logs to: CQ WW DX Contest, Box 481, New Carlisle, OH 45344, USA

Find rules at:

<http://www.cqww.com/rules.htm>

## Next Week's Contest

QRP Fox Hunt, 02:00 UTC-03:30 UTC 2 December

CWops Mini-CWT Test, 13:00 - 14:00 UTC and 19:00 - 20:00 UTC 2 December and 03:00 - 04:00 UTC 3 December

QRP ARCI Top band Sprint, 00:00 - 06:00 UTC 3 December

NRAU 10 m Activity Contest, 18:00 - 19:00 UTC (CW), 19:00 - 20:00 UTC (SSB), 20:00 - 21:00 UTC (FM) and 21:00 - 22:00 UTC (Dig) 3 December

NCCC RTTY Sprint, 01:45 - 02:15 UTC 4 December

QRP Fox Hunt, 02:00 - 03:30 UTC 4 December

NCCC Sprint, 02:30 - 03:00 UTC 4 December

ARRL 160-Metre Contest, 22:00 UTC 4 December to 16:00 UTC 6 December

TARA RTTY Melee, 00:00 - 24:00 UTC 5 December

Wake-Up! QRP Sprint, 06:00 - 06:29 UTC, 06:30 - 06:59 UTC, 07:00 - 07:29 UTC and 07:30 - 08:00 UTC 5 December

UK/EI DX Contest, SSB, 12:00 UTC 5 December to 12:00 UTC 6 December

TOPS Activity Contest, 16:00 UTC 5 December to 15:59 UTC 6 December

AWA Bruce Kelley 1929 QSO Party, 23:00 UTC 5 December to 23:00 UTC 6 December and 23:00 UTC 12 December to 23:00 UTC 13 December

Ten-Meter RTTY Contest, 00:00 - 24:00 UTC 6 December

SARL Digital Contest, 13:00 - 16:00 UTC 6 December

CQC Great Colorado Snowshoe Run, 21:00 - 22:59 UTC 6 December

ARS Spartan Sprint, 02:00 - 04:00 UTC 8 December

### NCDXF Press Release

The Northern California DX Foundation is pleased and proud to announce that it has published a Special Edition of the NCDXF Newsletter consisting of an article by legendary DXer and DXpeditioner Martti Laine, OH2BH, on working DXpedition pileups. Martti's article, entitled "It Takes Two to Tango," reflects Martti's lifetime of DXpedition experience, including the activation of 12 all-time new entities, and sets forth his thoughtful advice and reflections on how best to handle the pileups of DXers calling from Europe as well as other parts of the world. In today's environment of stations calling out of turn and deliberate QRM, Martti's advice could not be more timely and is destined to improve and enhance the DX experience for all. The article is available at the NCDXF website — [www.ncdxf.org](http://www.ncdxf.org).

NCDXF is pleased to make this article available for all. Since its founding in 1972, NCDXF has become the premier DX foundation in the world and has funded major DXpeditions to many Most Wanted Entities. In many cases, the NCDXF grant has made possible the successful activation of

these rare entities. NCDXF is supported by amateurs around the world who believe in our mission of supporting DXpeditions to rare entities. The credit for the grants made by NCDXF goes to the NCDXF contributors, individuals and clubs, who make our grants possible. Have you contributed yet?

Glenn Johnson, W0GJ, NCDXF Vice President

Items used with acknowledgement to the ARRL Letter, the ARRL DX News, the ARRL Contest Update, OPDX Bulletin, 425 DX Bulletin, DXNL Newsletter, WIA-News, the RSGB News, DxCoffee, Southgate ARC News, DX World and the Amateur Radio Newsletter

